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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/938,223	08/23/2001	Thomas A. Baudendistel	DP-305926	1694
75	90 05/02/2002			
Scott A. McBain			EXAMINER	
Delphi Technologies, Inc. Mail Code: 480-414-420			BUDD, MARK OSBORNE	
P.O. Box 5052 Troy, MI 48007-5052			ART UNIT	PAPER NUMBER
3,			2834	

DATE MAILED: 05/02/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. 938 773	Applicant(s) Bauden distel
Office Action Summary	Examiner M. B. 00	Group Art Unit
The MAILING DATE of this communication		
Period for Response	·~	
A SHORTENED STATUTORY PERIOD FOR RESPONS MAILING DATE OF THIS COMMUNICATION.	E IS SET TO EXPIRE 3	MONTH(S) FROM THE
<ul> <li>Extensions of time may be available under the provisions of 3 from the mailing date of this communication.</li> <li>If the period for response specified above is less than thirty (3 If NO period for response is specified above, such period shall a Failure to respond within the set or extended period for responding the set of the period for responding the set of the provisions of the provisions of 3 from the period for responding the provisions of 3 from the</li></ul>	0) days, a response within the statuto I, by default, expire SIX (6) MONTHS	ry minimum of thirty (30) days will be considered time from the mailing date of this communication .
Status		
☐ Responsive to communication(s) filed on		
☐ This action is <b>FINAL</b> .		
<ul> <li>Since this application is in condition for allowance accordance with the practice under Ex parte Quay.</li> </ul>		
Disposition of Claims		
Claim(s) [-17]	is/are pending in the application.	
Of the above claim(s)	is/are withdrawn from consideration.	
□ Claim(s)	is/are allowed.	
☐ Claim(s) / - 17		is/are rejected.
□ Claim(s)		
□ Claim(s)	·	•
Application Papers		requirement.
☐ See the attached Notice of Draftsperson's Patent D	Prawing Review, PTO-948.	
☐ The proposed drawing correction, filed on	is 🗆 approved [	☐ disapproved.
☐ The drawing(s) filed on is/are	objected to by the Examiner.	
☐ The specification is objected to by the Examiner.		
☐ The oath or declaration is objected to by the Exam	iner.	
Priority under 35 U.S.C. § 119 (a)-(d)		
<ul> <li>□ Acknowledgment is made of a claim for foreign price.</li> <li>□ All □ Some* □ None of the CERTIFIED cop.</li> <li>□ received.</li> <li>□ received in Application No. (Series Code/Serial)</li> <li>□ received in this national stage application from the complex of the complex o</li></ul>	ies of the priority documents ha	ve been
*Certified copies not received:		
Attachment(s)  XInformation Disclosure Statement(s), PTO-1449, Pa	aper No(s). 2 (8-23-01) 🗆 In	iterview Summary, PTO-413

Office Action Summary

☐ Other\_

U. S. Patent and Trademark Office PTO-326 (Rev. 3-97)

Notice of References Cited, PTO-892

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

Part of Paper No.

☐ Notice of Informal Patent Application, PTO-152

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-7, 13 and 14 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Richter.

Note especially fig. 9 of Richter which teaches a flex spline gear driven into two point contact with an outer gear to drive one member relative to the other..

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8-12 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richter in view of Kushida or Nishi Kura.

Richter (fig. 9) teaches the harmonic motor except for the transducer element being an array coupled to the inside of the flex-spline gear. Note that Richter contemplates the use of various suitable transducer materials including electro magnetic and magneto strictive (col. 1, ln. 10-38).

However, the drive transducers of Richter are not.

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However, each of Kushida and Nishimora teach driving a flex member (stator) via an array of sequentially excited transducer element to move the stator into selected moving contact with the moveable member to produce motion. Thus to drive the flexible spline gear of Richter with this known transducer array? Would have been obvious to one of the ordinary skill in the art.

Further cited of interest are Tojo (fig. 11-14), Bonin and Humphreys.

MAKE U. BUDD DAMAKY EXAMINER ART UNIT 212